

Title (en)

Reactive cyclic carbonates and ureas for the modification of biomolecules, polymeres and surfaces

Title (de)

Reaktive cyclische Carbonate und Harnstoffe zur Modifizierung von Biomolekülen, Polymeren und Oberflächen

Title (fr)

Carbonates et urées cycliques et réactifs pour la modification de biomolécules, polymères et surfaces

Publication

EP 1541568 A1 20050615 (DE)

Application

EP 03028224 A 20031209

Priority

EP 03028224 A 20031209

Abstract (en)

Cyclic carbonate and urea derivatives (I) and (II) are new. Cyclic carbonate and urea derivatives of formulae (I) and (II) are new. [Image] R : 1-12C alkylene; X : -CONHR 1>; R 1>1-30C alkyl (optionally substituted by halo, hydroxy, 1-6C alkoxy, 1-6C alkylcarbonyloxy, amino, 1-6C alkylamino, di(1-6C alkyl)amino, ammonio, polyoxyalkylene, polysiloxanyl, (meth)acryloyloxy, sulfono, phosphono, di(1-6C alkyl)phosphono, phosphonato or di(1-6C alkyl)phosphonato) or a sugar residue Independent claims are also included for the following: (1) reaction products (RP) of (I) and (II) with a polymer that includes the functional groups hydroxy, primary amino or secondary amino; (2) method for modifying biomolecules, polymers and surfaces that include the functional groups hydroxy, primary amino or secondary amino by covalent reaction with (I) or (II); and (3) method for modifying surfaces by contact with RP.

Abstract (de)

Beschrieben werden reaktive cyclische Carbonate und Harnstoffe der Formel I oder II <IMAGE> worin R und X die in der Beschreibung angegebene Bedeutung haben. Sie gestatten die gezielte Einführung funktionaler Gruppierungen in Biomoleküle, Polymere und Oberflächen unter milden Bedingungen. <IMAGE>

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CPC (source: EP US)

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Citation (search report)

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